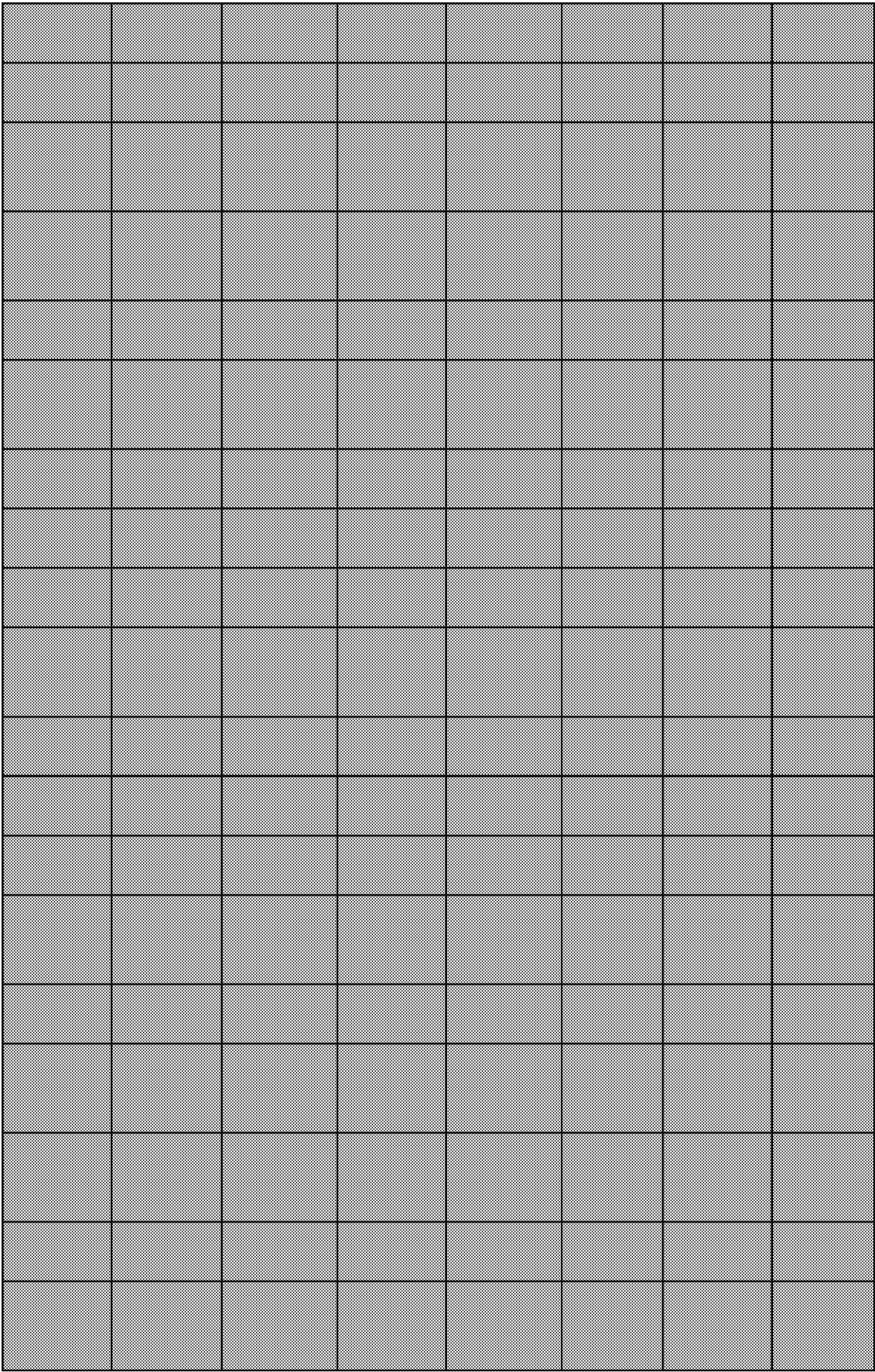


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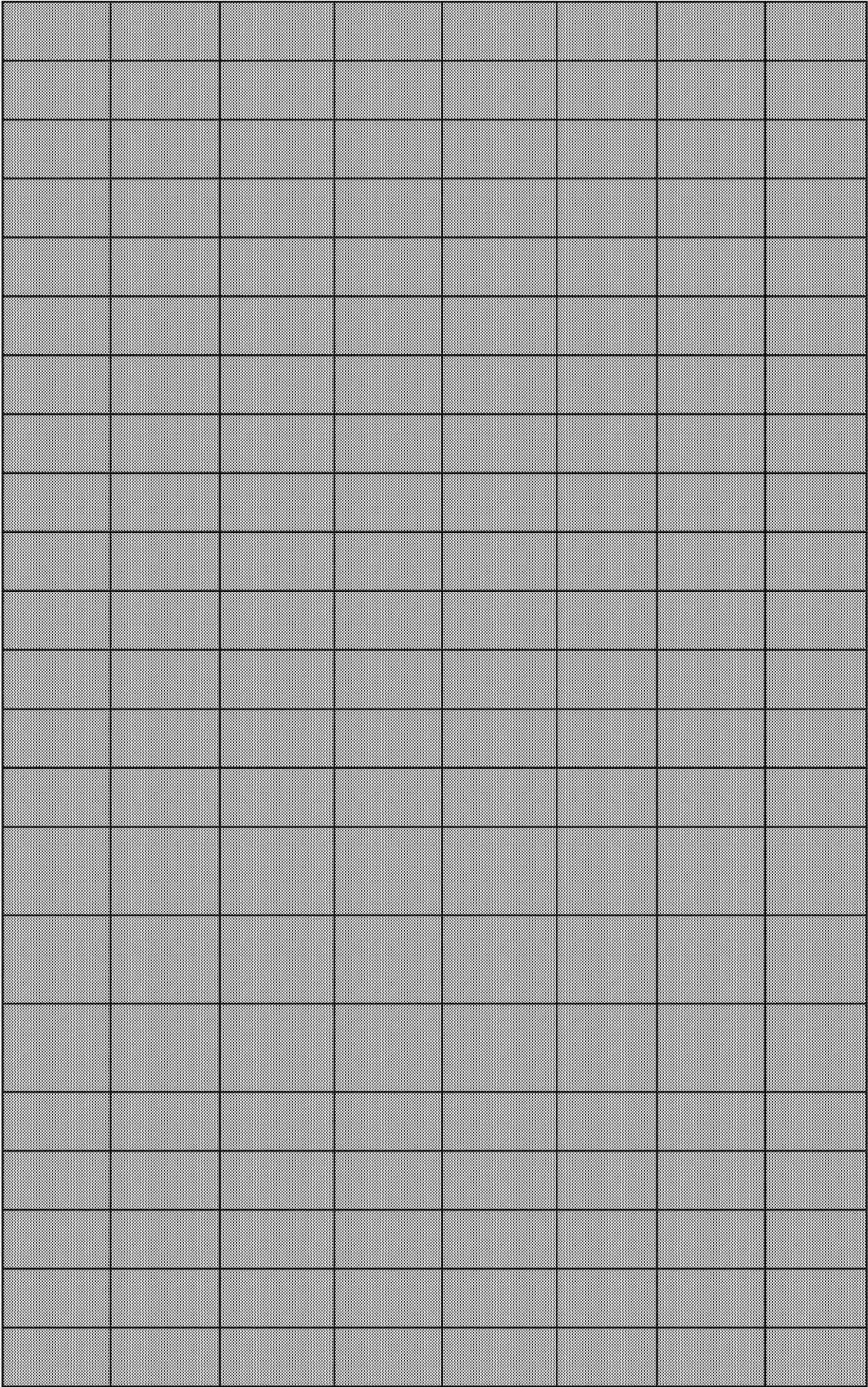
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The use of herbicides constitutes the principal method of weed control, but the introduction of these compounds into the
Plants are often exposed to external biotic or abiotic agents that can damage cells. Biotic agents include molecules produced
Liver plays an important role in biological detoxication of xenobiotics. During this process, one can observe the inactivation
Although the strategies routinely adopted to limit production of carcinogenic aflatoxins by <i>Aspergillus parasiticus</i> and <i>As</i>
Plant defense responses to stress have attracted interest because of their similarity to reported mammalian stress responses
A number of epidemiological studies have demonstrated a strong association between the incidence of neurodegenerative
Plant cells possess a number of membrane bound organelles that play important roles in compartmentalizing a large number
Although the underlying cause of Parkinson's disease (PD) is not well characterized, epidemiological studies suggest that
Effects of oxidative stress induced by prooxidants (herbicide paraquat, salicylic acid and LiCl) on functional activity and ultra
Huntington's disease (HD) is a neurodegenerative disorder caused by a mutation in the gene encoding the huntingtin protein
Mutations in leucine-rich repeat kinase 2 (LRRK2) are a major cause of familial Parkinsonism, and the G2019S mutation o
Plants use programmed cell death (PCD) as a tool in their growth and development. PCD is also involved in defense against
In the lung, chemical redox cycling generates highly toxic reactive oxygen species that can cause alveolar inflammation and
Humans are exposed to various chemical mixtures daily. The toxic response to a mixture of chemicals could be potentiati
The effect of hydrogen peroxide (H ₂ O ₂) on carotenoid synthesis in <i>Chlamydomonas reinhardtii</i> under light-induced stress
Valproic acid (VPA), an anticonvulsant and mood-stabilizing drug, is widely used for the treatment of different types of se
A significant number of low molecular weight metal complexes as well as metal-free compounds that are capable of scav
Bioconjugated quantum dots (QDs) with <i>E. coli</i> cells (bioconjugates) were employed as fluorescent switches that turn-off
The excess oxygen concentration in the photosynthetic membranes of functioning oxygenic photosynthetic cells was esti

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Environmental factors have been implicated in the pathogenesis of neurodegenerative diseases. Maneb (MB) and manco
Overexpression and/or activation of HER2 confers resistance of cancer cells to chemotherapeutic drugs. NRF2 also gives
Treatment with rotenone, both in vitro and in vivo, is widely used to model dopamine neuron death in Parkinson's diseas
Purpose Retinal degenerations are a heterogeneous group of diseases in which there is slow but progressive loss of phot
Environmental stimuli such as UV, paraquat, and H2O2 can induce reactive oxygen species (ROS) production and impair t
P-glycoprotein (P-gp) is an ATP-dependent efflux pump encoded by the MDRI gene in humans, known to mediate multid
Chlamydomonas reinhardtii cells were exposed to a sublethal concentration of the widespread herbicide atrazine for 3 a
Previous studies indicate that replicative lifespan in daughter cells of Saccharomyces cerevisiae depends on the prefer
Protein functions are tightly regulated by their subcellular localization in live cells, and quantitative evaluation of dynami
1,6,6a-Trithia-3,4-diazapentalenes, which are hypervalent compounds, were reduced electrochemically and the resulting
Oxidative stress may affect the malaria parasite at each stage of its development. Ascorbic acid had a stage-dependent e
Iron is a critically important metal for a wide variety of cellular events. The element holds this central position by virtue o
Interleukin-1 (IL-1) and tumor necrosis factor (TNF) selectively induce mitochondrial manganese superoxide dismutase (M
Genetically determined chromosomal instability entails, among other sequelae, a condition of elevated cancer risk. Patie
Paraquat is known to affect all green plants and other eukaryotic organisms including mammalian cells. The aim of this st

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